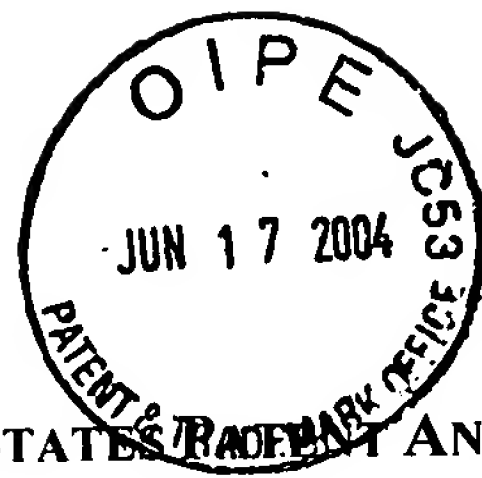


Attorney's Docket No. 09100.023



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Jonathan BIGWOOD

Appl. No.: 09/994,345

Group Art Unit: 2681

Filed: November 26, 2001

Examiner: Duc M. Nguyen

For: A METHOD OF AND AN APPARATUS FOR MONITORING THE  
CONDITION OF BATTERIES USED BY MOBILE RADIO  
TELECOMMUNICATIONS FLEET

INFORMATION DISCLOSURE STATEMENT

**RECEIVED**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

JUN 21 2004

Technology Center 2600

Sir:

Pursuant to Applicant's duty of disclosure under 37 C.F.R. §§1.56 and 1.97-1.99, the documents listed on the attached Form PTO-1449 are being brought to the attention of the Examiner in charge of the above-identified application and are enclosed herewith.

These documents were located during a prior art search, were cited during the prosecution of corresponding foreign applications, or are English equivalents of cited foreign language documents. None of these documents are believed to be material to the patentability of the present claims. Furthermore, after consideration of these documents, both the United Kingdom Patent Office and the European Patent Office deemed substantially identical claims to be patentable over these documents.

References 1, 3-27, 34-36, and 38-41 were located in a prior art search conducted prior to the drafting of the present application and the present claims are patentably distinguishable over these references. Reference 2 is a English language equivalent of French language reference 7. These references are directed to batteries, including the monitoring of the current condition of the battery and not to the presently claimed invention of transmitting battery condition information and a battery identifier over an air interface to a data store.

References 28-33 and 37 were cited in various United Kingdom and PCT search reports for the United Kingdom priority application No. GB 9820271.6, the corresponding PCT

application PCT/GB99/03078, and the corresponding United Kingdom application 9921986.7, copies of which are enclosed.

None of the references cited in these searches show the presently claimed invention of transmitting battery condition information and a battery identifier over an air interface to a data store. Although the references cited in the United Kingdom search report for the priority application were indicated as being relevant, the claims were of different scope from the present claims. In fact, the same references were deemed to be of general technical background in the corresponding United Kingdom application which had claims substantially identical to the presently allowed claims.

In accordance with the provisions of 37 CFR 1.97 (c) (2), this Information Disclosure Statement is being submitted prior to the mailing date of any final action, notice of allowance, or an action that otherwise closes prosecution in this matter and is accompanied by the fee set forth in 37 CFR 1.17 (p).

The Examiner is respectfully requested to cite the documents listed on the attached Form PTO-1449 in the next Office Action. In so doing, the Examiner is respectfully requested to initial in the space adjacent to the listing of each document on the Form PTO-1449, and return a copy of the initialed Form PTO-1449 with the next communication to Applicants, to confirm that these documents have been considered by the Examiner and made of record in this application.

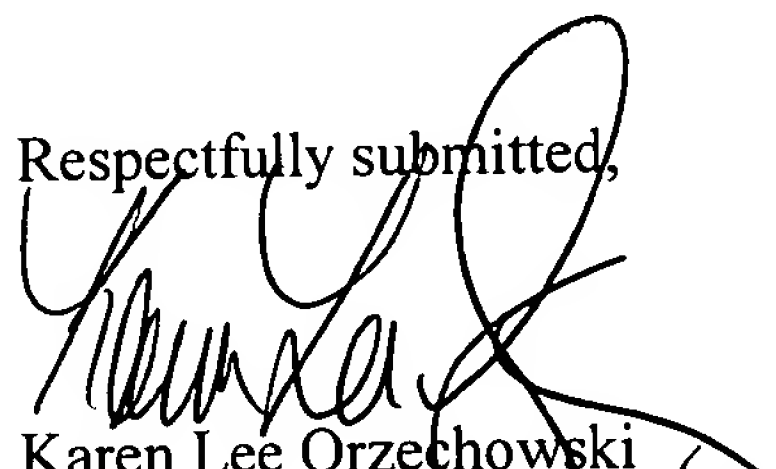
Should there be any questions regarding this matter, please do not hesitate to contact the undersigned attorney of record.

Date: June 14, 2004

IP Law Specialists, llc  
7777 Leesburg Pike  
Suite 304 North  
Falls Church, VA 22043

Telephone: 703.442.9285  
Facsimile: 703.442.9378

Respectfully submitted,



Karen Lee Orzechowski  
Registration No. 31,621

Information Disclosure Statement  
Application No. 09/994,301  
Filing Date: November 26, 2001  
Page 3 of 3

**CERTIFICATION OF FACSIMILE TRANSMISSION**

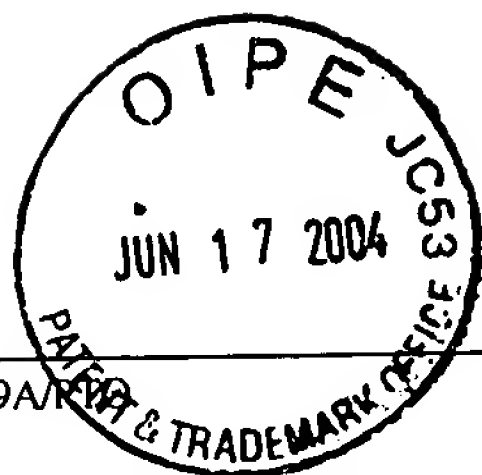
I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office at Fax No. (703) 872-9306 on June 14, 2004.

Karen Lee Orzechowski

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on June 14, 2004.

  
Karen Lee Orzechowski



| Substitute for form 1449A/1449B   |                       |   |                     | Complete if Known                                  |  |   |  |                |
|---|-----------------------|---|---------------------|--|--|---|--|----------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |                       |   |                     | Application Number                                 | 09/994,301   |   |  |                |
|   |                       |   |                     | Filing Date  | November 26, 2001                                      |   |  |                |
|   |                       |   |                     | First Named Inventor                               | Jonathan BIGWOOD et al.                                |   |  |                |
|   |                       |   |                     | Group Art Unit                                     | 2681   |   |  |                |
|   |                       |   |                     | Examiner Name                                      | Duc M. Nguyen  |   |  |                |
| Sheet   | 1                     | of  | 3                   | Attorney Docket Number                             | 09100.023  |   |  |                |
| <b>U.S. PATENT DOCUMENTS</b>  |                       |   |                     |  |  |   |  |                |
| Examiner Initials*  | Cite No. <sup>1</sup> | U.S. Patent Document<br>Kind Code <sup>2</sup><br>Number (if known) |                     | Name of Patentee or Applicant<br>Of Cited Document | Date of Publication<br>of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where<br>Relevant Passages of Relevant<br>Figures Appear |  |                |
|   | 1                     | 5,870,685   |                     | Flynn  | 02-09-1999   | <b>RECEIVED</b><br><br>JUN 21 2004<br><br>Technology Center 2600                |  |                |
|   | 2                     | 5,546,317   |                     | Andrieu  | 08-13-1996   |   |  |                |
|   | 3                     | 5,371,453   |                     | Fernandez  | 12-06-1994   |   |  |                |
|   | 4                     | 5,298,346   |                     | Gyenes   | 03-29-1994   |   |  |                |
| <b>FOREIGN PATENT DOCUMENTS</b>   |                       |   |                     |  |  |   |  |                |
| Examiner Initials   | Cite No.              | Office <sup>3</sup>   | Number <sup>4</sup> | Kind Code<br>(if known) <sup>5</sup>               | Name of Patentee or Applicant<br>of Cited Document     | Date of Publication<br>of Cited Document<br>MM-DD-YYYY                          | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>6</sup> |
|   | 5                     | EP  | 0 673 103           | A1   | Ericsson Inc.  | 09-20-1995  |  |                |
|   | 6                     | EP  | 0 661 789           | A2   | Texas Instruments                                      | 07-05-1995  |  |                |
|   | 7                     | EP  | 0 623 828           | A1   | Alcatel  | 11-09-1994  |  |                |
|   | 8                     | EP  | 0 593 198           | A1   | Matsushita Electric                                    | 04-20-1994  |  |                |
|   | 9                     | EP  | 0 448 767           | B1   | Anton/Bauer, Inc.                                      | 10-02-1991  |  |                |
|   | 10                    | EP  | 0 448 755           | B1   | Anton/Bauer, Inc.                                      | 10-02-1991  |  |                |
|   | 11                    | JP  | 06/163083           | A  | Sharp Corp.  | 06-10-1994  |  |                |
|   | 12                    | JP  | 06/013111           | A  | Canon Inc.   | 01-21-1994  |  |                |
|   | 13                    | JP  | 05/315015           | A  | Matsushita Electric                                    | 11-26-1993  |  |                |
|   | 14                    | JP  | 05/315010           | A  | Matsushita Electric                                    | 11-26-1993  |  |                |
|   | 15                    | JP  | 05/290894           | A  | Sony Inc.  | 11-05-1993  |  |                |
| Examiner Signature  |                       |   |                     |  |  | Date Considered   |  |                |

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number.

<sup>2</sup> See attached Kinds of U.S. Patent Documents.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



| Substitute for form 1449A/PTO   |             |                         |                     | Complete if Known                    |  |   |  |                 |
|---|-------------|-------------------------|---------------------|--------------------------------------|--|---|--|-----------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |             |                         |                     | Application Number                   | 09/994,301   |   |  |                 |
|   |             |                         |                     | Filing Date                          | November 26, 2001                                  |   |  |                 |
|   |             |                         |                     | First Named Inventor                 | Jonathan BIGWOOD et al.                            |   |  |                 |
|   |             |                         |                     | Group Art Unit                       | 2681   |   |  |                 |
|   |             |                         |                     | Examiner Name                        | Duc M. Nguyen                                      |   |  |                 |
| Sheet   | 2           | of                      | 3                   | Attorney Docket Number               | 09100.023  |   |  |                 |
| <b>FOREIGN PATENT DOCUMENTS</b>   |             |                         |                     |                                      |  |   |  |                 |
| Examiner<br>Initials  | Cite<br>No. | Foreign Patent Document |                     |                                      | Name of Patentee or Applicant<br>of Cited Document | Date of<br>Publication of<br>Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sup>10</sup> |
|   |             | Office <sup>7</sup>     | Number <sup>8</sup> | Kind Code<br>(if known) <sup>9</sup> |  |   |  |                 |
|   | 16          | JP                      | 05/074501           | A                                    | Honda Motor Co Ltd                                 | 03-26-1993  |  |                 |
|   | 17          | JP                      | 04/267077           | A                                    | Sony Corp  | 09-22-1992  |  |                 |
|   | 18          | JP                      | 04/098769           | A                                    | NEC  | 03-31-1992  |  |                 |
|   | 19          | JP                      | 04/087161           | A                                    | NEC  | 03-19-1992  |  |                 |
|   | 20          | JP                      | 04/026076           | A                                    | Hino Motors Ltd                                    | 01-29-1992  |  |                 |
|   | 21          | JP                      | 03/165471           | A                                    | Fujikura Ltd                                       | 07-17-1991  |  |                 |
|   | 22          | JP                      | 03/163766           | A                                    | Matsushita Electric                                | 07-15-1991  |  |                 |
|   | 23          | JP                      | 03/155063           | A                                    | Sanyo Electric                                     | 07-03-1991  |  |                 |
|   | 24          | JP                      | 03/149767           | A                                    | Casio Computer                                     | 06-26-1991  |  |                 |
|   | 25          | JP                      | 01/059516           | A                                    | Sony Corp  | 03-07-1989  |  |                 |
|   | 26          | JP                      | 01/059179           | A                                    | Sony Corp  | 03-06-1989  |  |                 |
|   | 27          | JP                      | 61/029079           | A                                    | NEC  | 02-08-1986  |  |                 |
|   | 28          | JP                      | 60/025465           | A                                    | Matsushita Electric                                | 02-08-1985  |  |                 |
|   | 29          | WO                      | 99/01918            | A2                                   | Estco Energy Inc.                                  | 01-14-1999  |  |                 |
|   | 30          | WO                      | 98/26662            | A2                                   | Ericsson   | 06-18-1998  |  |                 |
|   | 31          | WO                      | 98/10610            | A1                                   | Ericsson GE Mobile Inc.                            | 03-12-1998  |  |                 |
|   | 32          | WO                      | 97/33260            | A1                                   | Aspire Corporation                                 | 09-12-1997  |  |                 |
|   | 33          | WO                      | 95/09512            | A1                                   | Nokia  | 04-06-1995  |  |                 |
| Examiner<br>Signature   |             |                         |                     |                                      | Date<br>Considered                                 |   |  |                 |

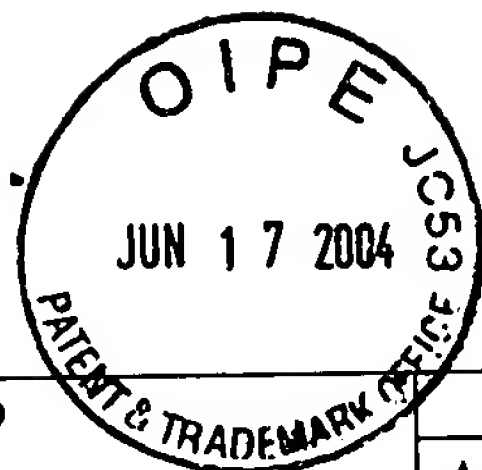
\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>7</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>8</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>9</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>10</sup> Applicant is to place a check mark here if English language Translation is attached.



|  |          |   |           |                          |   |   |   |                 |
|--|----------|---|-----------|--------------------------|---|---|---|-----------------|
| <b>Substitute for form 1449A/PTO</b><br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(Use as many sheets as necessary)</i> |          |   |           | <b>Complete if Known</b> |   |   |   |                 |
|  |          |   |           | Application Number       |   | 09/994,301  |   |                 |
|  |          |   |           | Filing Date              |   | November 26, 2001                                   |   |                 |
|  |          |   |           | First Named Inventor     |   | Jonathan BIGWOOD et al.                             |   |                 |
|  |          |   |           | Group Art Unit           |   | 2681  |   |                 |
| Examiner Name  |          | Duc M. Nguyen   |           |                          |   |   |   |                 |
| Sheet  | 3        | of  | 3         | Attorney Docket Number   |   | 09100.023   |   |                 |
| <b>FOREIGN PATENT DOCUMENTS</b>  |          |   |           |                          |   |   |   |                 |
| Examiner Initials  | Cite No. | Foreign Patent Document<br>Office <sup>11</sup> Number <sup>12</sup> Kind Code (if known) <sup>13</sup>   |           |                          | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T <sup>14</sup> |
|  | 34       | WO  | 94/000888 | A1                       | The Technology Partner.                         | 01-06-1994  |   |                 |
|  | 35       | WO  | 92/022099 | A1                       | Motorola  | 12-10-1992  |   |                 |
|  | 36       | WO  | 90/015450 | A1                       | Amoco   | 12-13-1990  |   |                 |
| <b>NON PATENT LITERATURE DOCUMENTS</b>   |          |   |           |                          |   |   |   |                 |
| Examiner Initials  | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |           |                          |   |   |   | T               |
|  | 37       | WADE, M. et al., "Monitoring battery performance in remote-area power-supply (RAPS) systems", Journal of Power Sources, September 1991, Vol. 35, No. 4, pages 421-430   |           |                          |   |   |   |                 |
|  | 38       | "Smarter than the average battery", New Electronics, 8 August 1995, pages 43-44   |           |                          |   |   |   |                 |
|  | 39       | "Battery Pack with the Memory for its Capacity", IBM Technical Disclosure Bulletin, May 1993, Vol. 36, No. 05, pages 183-814  |           |                          |   |   |   |                 |
|  | 40       | TAYLOR, H. et al., "Standard Smart Batteries for Consumer Applications", Proceedings of the Tenth Annual Battery Conference on Applications and Advances, January 10-13, 1995, page 183   |           |                          |   |   |   |                 |
|  | 41       | DILIP, S. et al., "Advanced Algorithms & Hardware for Intelligent Batteries", Proceedings of the Tenth Annual Battery Conference on Applications and Advances, January 10-13, 1995, pages 177-182   |           |                          |   |   |   |                 |
| Examiner Signature   |          |   |           |                          |   | Date Considered                                     |   |                 |

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<sup>12</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>13</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>14</sup> Applicant is to place a check mark here if English language Translation is attached.